STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

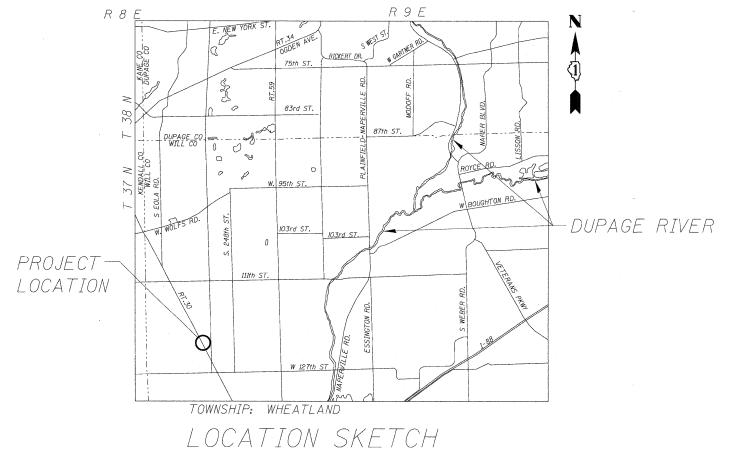
**DIVISION OF HIGHWAYS** 

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS 2-BARREL BOX CULVERT REPLACEMENT

FAP 349 / US ROUTE 30 OVER DITCH (1.5 MI. SOUTH OF 111th ST.) SECTION 15 T-1

WILL COUNTY C-91-215-09



NET AND GROSS LENGTH OF PROJECT = 48' = 0.009 MI

 $\bigcirc$ 

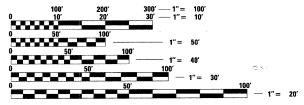
O 4

 $\circ$ 

DESIGN DESIGNATION
MINOR ARTERIAL (URBAN)
ADT 14500 (2007)
SPEED LIMIT 50 MPH

THE PROPOSED WORK TO BE PREFORMED CONSISTS OF REMOVING THE EXISTING DOUBLE BARREL CULVERT AT STATION 267+59, AND REPLACING THE EXISTING STRUCTURE WITH A NEW 7'x3' DOUBLE-BARREL PRECAST CONCRETE BOX CULVERT UTILIZING PHASED DEMOLITION AND CONSTRUCTION.

THE PROPOSED STRUCTURE NUMBER IS SN 099-0508.

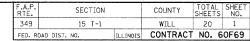


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

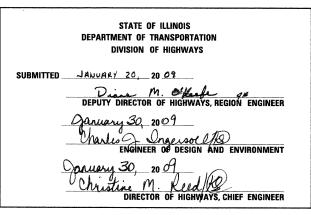
PROJECT ENGINEER: REJENDRA C. SHAH (847) 705-4555 PROJECT MANAGER: CATHERINE KIBBLE (847) 705-4269

CONTRACT NO. 60F69



D-91-215-09





# PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS





Subject 11-30-10 Exbrus 11-30-0

### STATE STANDARDS

SHEET NO.	<u>TITLE</u>
1	TITLE SHEET
2	GENERAL NOTES, INDEX OF SHEETS
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
5	STAGING TYPICAL SECTIONS
6	CONSTRUCTION STAGING PLAN - STAGE 1
7	CONSTRUCTION STAGING PLAN - STAGE 2
8	PLAN AND PROFILE
9	TEMPORARY LIGHTING - GENERAL NOTES, INDEX AND SYMBOLS
10	TEMPORARY LIGHTING PLAN
11	TEMPORARY LIGHTING - DETAILS
12	TEMPORARY LIGHTING - DETAILS
13	PAVEMENT MARKING PLAN
14	EROSION CONTROL PLAN
15	GENERAL PLAN, ELEVATION AND INDEX
16	HEADWALL DETAILS
17	WINGWALL DETAILS
18	BORING LOG
19	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
20	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
	HIGHWAY STANDARDS

SHEET NO.	<u>TITLE</u>
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001- <b>02</b>	AREAS OF REINFORCEMENT REBARS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND CLASS D PATCHES
515001- <b>03</b>	NAME PLATE FOR BRIDGE
635006- <b>03</b>	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011- <b>02</b>	REFLECTOR MARKER AND MOUNTING DETAILS
701201- <b>03</b>	LANE CLOSURE, 2L, 2W DAY ONLY FOR SPEEDS > 45 MPH
701301- <b>03</b>	LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
701316- <b>04</b>	LANE CLOSURE 2L, 2W BRIDGE REPAIR FOR SPEEDS > 45 MPH
701901 <b>-01</b>	TRAFFIC CONTROL DEVICES
704001- <b>05</b>	TEMPORARY CONCRETE BARRIER
720001 <b>-01</b>	SIGN PANEL MOUNTING DETAILS
720006 - <b>02</b>	SIGN PANEL ERECTION DETAILS
720011 <b>-01</b>	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001 <b>-01</b>	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGN & MARKERS)
780001- <b>02</b>	TYPICAL PAVEMENT MARKINGS
886001- <b>01</b>	DETECTOR LOOP INSTALLATIONS
886006- <b>01</b>	TYPICAL LAYOUTS FOR DETECTION LOOPS

### GENERAL NOTES

- ALL ELEVATIONS ARE BASED ON UNITED STATES COAST AND GEODETIC SURVEY DATUM.
- 2. DIMENSIONS ARE IN ENGLISH UNITS UNLESS OTHERWISE NOTED.
- 3. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- 4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- 6. ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT LISTED IN THE PLANS WITH THE LATEST NUMBERS.
- 7. DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL DEPOSITS
  THAT OBSTRUCT THE FLOW OF WATER IN DRAINING THE AREA SHALL
  BE REMOVED BEFORE THE END OF EACH WORK DAY, AT THE
  CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE
  STRUCTURES (NEW AND EXISTING) SHALL BE FREE FROM ALL DIRT
  AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT
  SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 8. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS.
  THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN
  PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND
  ADJOINING PROPERTIES.
- 9. THE CONTRACTOR SHALL NOTIFY THE AREA TRAFFIC FIELD ENGINEER, DON CHIARUGI, AT (847) 741-9857 AT LEAST 72 HOURS PRIOR TO FINAL PAVEMENT MARKING INSTALLATION.
- 10. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- II. ALL UNBALLASTED TYPE I AND TYPE II BARRICADES SHALL HAVE TWO (2) SANDBAGS ON THE BOTTOM RAIL.
- 12. ALL WORK IS TO BE COMPLETED WITHIN XXXX. THE COMPLETION DATE FOR THIS CONTRACT IS XXX, 2009.

	DESIGNED	-	MJY	REVISED	
	DRAWN	-	ST	REVISED	-
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	CHECKED	-	MJY	REVISED	-
	DATE	~	01/16/2009	REVISED	

STATE	: OF	ILLINOIS
DEPARTMENT	<b>OF</b>	TRANSPORTATION

GENERAL NOTES, INDE	F.A. RTE.	SECTION	
US ROUTE	349	15 T-1	
 OJ HOUIL		D-91-215-09	
SHEET NO. 2 OF 20 SHEETS	STA 267+35 TO STA 267+83	EED DO	DAD DIST NO THI INO

CONTRACT NO. 60F69

	SUMMARY OF QUANTITIES			l	STATE BAN
CODE NO.	ITEM	UNIT	TOTAL QTY.	ROADWAY	BX CULV
20200100	EARTH EXCAVATION	CU YD	116		116
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	115		115
21101815	COMPOST FURNISH AND PLACE, 4"	SQ YD	44	44	
25000310	SEEDING, CLASS 4	ACRE	0.10	0.10	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1	1	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1	1	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1	1	
25100630	EROSION CONTROL BLANKET	SQ YD	44	44	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1	1	
28000300	TEMPORARY DITCH CHECKS	EACH	2	2	
28000400	PERIMETER EROSION BARRIER	FOOT	60	60	
28100107	STONE RIPRAP, CLASS A4	SQ YD	26		26
28200200	FILTER FABRIC	SQ YD	48		48
		TON	1	1	70
40600200	BITUMINOUS MATERIALS (PRIME COAT)		140	140	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD		140	,
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	140		140
50300300	PROTECTIVE COAT	SQ YD	11		11
50800105	REINFORCEMENT BARS	POUND	1975		1975
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	106		106
51500100	NAME PLATES	EACH	1		1
54003000	CONCRETE BOX CULVERTS	CU YD	25.7		25.7
54010703	PRECAST CONCRETE BOX CULVERT 7'x3'	FOOT	92		92
67100100	MOBILIZATION	L SUM	1	. 1	
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	1986	1986	
70300660	TEMPORARY PAINT PAVEMENT MARKING LINE 24"	FOOT	26	26	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	418	418	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	206	206	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4	
78200200	BIDIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	17	17	
78200500	BARRIER WALL MARKERS	EACH	42	42	
		SQ FT			
78300100 78300200	PAVEMENT MARKING REMOVAL  RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	40	40	
			3	3	
81800320	AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	510	510	
83057350	LIGHT POLE, WOOD, 60 FOOT, CLASS 4	EACH	1	. 1	
84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	4	4	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	50	50	
X0323002	TEMPORARY ELECTRIC SERVICE CONNECTION	EACH	1	1	
X0323003	TEMPORARY ELECTRIC SERVICE INSTALLATION	EACH	1	1	
X0324304	REMOVAL OF TEMPORARY WOOD POLE, SALVAGE	EACH	4	4	
X0325265	REMOVE ELECTRIC SERVICE	EACH	1	1	
X0325553	TEMPORARY WOOD POLE, 60 FT, CLASS 4, 20 FT, MAST ARM	EACH	3	3	
X0326319	TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400W, TYPE II DISTRIBUTION	EACH	3	3	
X0325867	COMBINATION POLE MOUNTED ELECTRIC SERVICE BOX	EACH	1	1	
X0325878	TRAFFIC SIGNAL WOOD POLE, 60 FT, CLASS 4	EACH	4	4	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3	3	
X8410118	MAINTENANCE OF TEMPORARY LIGHTING SYSTEM	L SUM	1	1	
XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	2	2	
XX007025	COARSE AGGREGATE BACKFILL (SPECIAL)	CU YD	310		310
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1

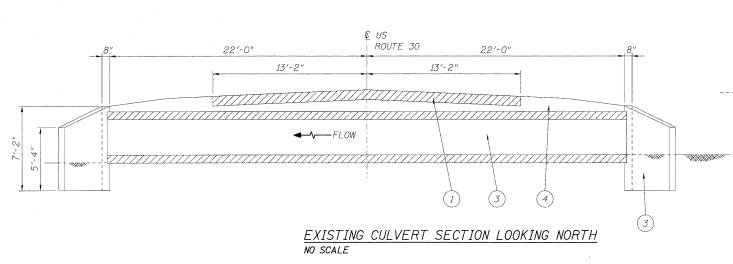
\* SPECIALTY ITEMS

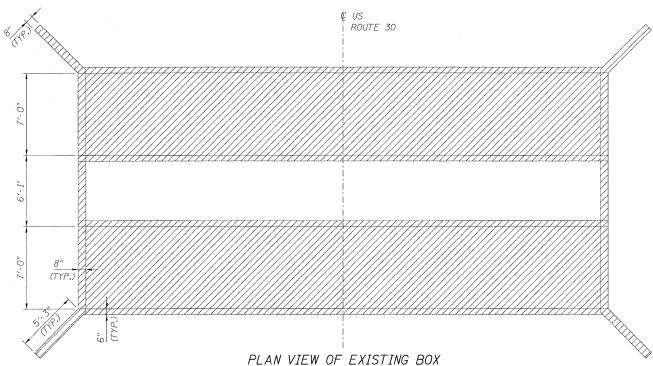
X0323988 TEMPORARY SOIL RETENTION SYSTEM

3Q FT 245

245

		DESIGNED - MJY		SUMMARY OF QUANTITIES		F.A.P.	SECTION	COUNTY	TOTAL SH	HEET NO.		
		DRAWN - ST	REVISED -	STATE OF ILLINOIS		US ROUTE		349	15 T-1	WILL	20	3
	CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED - MJY	REVISED -	DEPARTMENT OF TRANSPORTATION		US NUUIE	30		D-91-215-09	CONTRACT	T NO. 60F	-69
NAPER	VILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE - 01/16/2009	REVISED -		SCALE: NONE	SHEET NO. 3 OF 20 SHEETS	STA. 267+35 TO STA. 267+83	FED. RO	DAD DIST. NO.   ILLINOIS FED.	AID PROJECT		
		 										_





### LEGEND

NO SCALE

- (1) PAVEMENT REMOVAL
- (10) COMPOST FURNISH AND PLACE 4"
- (2) EARTH EXCAVATION
- 11) TEMPORARY CONCRETE BARRIER
- (3) REMOVAL OF EXISTING STRUCTURES
- (12) PAVEMENT MARKING TAPE, TYPE III, 4" WHITE
- (4) STRUCTURE EXCAVATION
- (13) DRUM WITH STEADY BURNING LIGHT
- 5 REMOVAL AND DISPOSAL OF

UNSUITABLE MATERIAL

(14) CA 7

BY THE ENGINEER. 2. EXCAVATION LIMITS VARY.

CULVERT 7'x3' ITEM.

- HMA BINDER AND SURFACE COURSE TO BE PAID FOR
- AS CLASS D PATCHES, TYPE IV, 10" IN SQ.YD. THE COST 6" OF CA 7 UNDER CULVERT SHALL BE INCLUDED IN THE PRECAST CONCRETE BOX

1. THE INSTALLATION OF THE PRECAST CONCRETE

BOX CULVERT WILL BE COMPLETED IN STAGES.

PATCHES WILL BE PLACED AS NECESSARY TO

OPEN THE ROAD TO TRAFFIC, OR AS DIRECTED

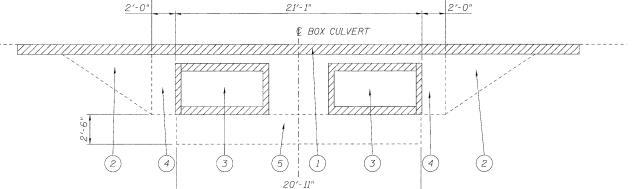
CLASS D PATCHES, TYPE IV, 10" TEMPORARY

- (6) PRECAST CONCRETE BOX CULVERT 7'x3'
- (7A) HMA BINDER COURSE IL-19mm, N70,  $8_2^l$ " (IN 3 LIFTS)
- (7B) HMA SURFACE COURSE MIX D, N7O, 1/2"
- 8 BITUMINOUS MATERIALS (PRIME COAT)
- 9 COARSE AGGREGATE BACKFILL (SPECIAL)

### DESIGNED - MJY - ZDA CONSULTING ENGINEERS 1560 WALL ST. SUITE 222 PERVILLE, ILLINOIS 60563 PH: (630) 577-910 CHECKED - MJY REVISED - 01/21/2009 REVISED

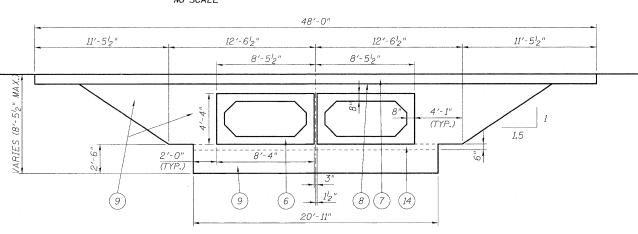
### STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	TYPICAL SECTIONS US ROUTE 30			SEC <sup>-</sup>	TION	COUNTY	TOTAL	SHEET NO.
				15	T-1	WILL	20	4
				D-91-215	-09	CONTRACT	NO. 6	0F69
	SHEET NO. 4 OF 20 SHEETS	STA. 267+35 TO STA. 267+83	FED. RO	DAD DIST. NO.	ILLINOIS FED. AI	D PROJECT		



25'-1"

## EXISTING BOX CULVERT SECTION LOOKING WEST



### PROPOSED BOX CULVERT SECTION LOOKING WEST NO SCALE

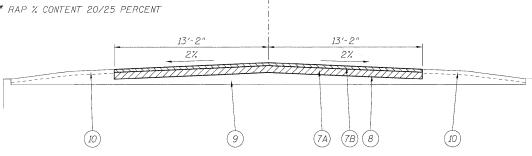
### CLASS D PATCHES

<i>APPLICATION</i>	MIXTURE TYPE	AC TYPE	AIR VOIDS
US RT 30 THRU-LANES	HMA SURFACE COURSE MIX D, N70, (IL-9.5mm) WITH REQUIREMENTS	PG 64-22/58-22	4% @ 70 GYR.
 IIS RT 30 THRII-I ANES	HMA BINDER COURSE II - 19 0 N70 WITH REQUIREMENTS	PG 64-22*/58-22	4% @ 70 GYR

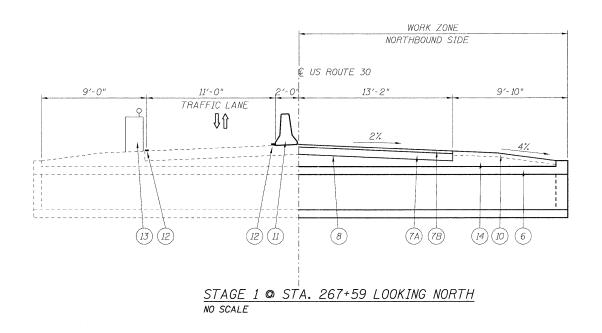


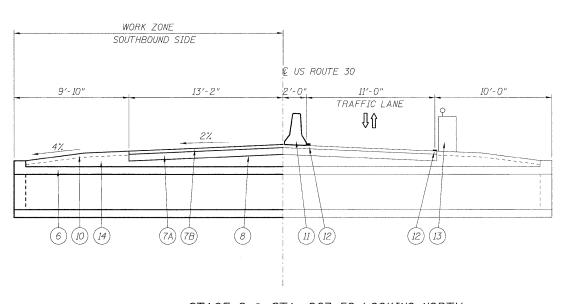
HMA SURFACE CSE 112 LBS/SQ.YD./IN

SCALE: NONE



PROPOSED ROADWAY SECTION NO SCALE





# STAGE 2 © STA. 267+59 LOOKING NORTH NO SCALE

### LEGEND

- 1 PAVEMENT REMOVAL
- (2) EARTH EXCAVATION
- 3) REMOVAL OF EXISTING STRUCTURES
- 4) STRUCTURE EXCAVATION
- (5) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- 6 PRECAST CONCRETE BOX CULVERT 7'x3'
- (7A) HMA BINDER COURSE IL-19mm, N70,  $8^{l}_{2}$ " (IN 3 LIFTS)
- (7B) HMA SURFACE COURSE MIX D, N70,  $1_2''$
- 8 BITUMINOUS MATERIALS (PRIME COAT)
- 9 COARSE AGGREGATE BACKFILL (SPECIAL)
- (10) COMPOST FURNISH AND PLACE 4"
- 11) TEMPORARY CONCRETE BARRIER
- (12) PAVEMENT MARKING TAPE, TYPE III, 4" WHITE
- (13) DRUM WITH STEADY BURNING LIGHT
- (14) CA 7

### NOTE:

HMA BINDER AND SURFACE COURSE TO BE PAID FOR AS CLASS D PATCHES, TYPE IV, 10" IN SQ.YD.

	DESIGNED -	MJY		
	DRAWN -	ZDA	REVISED -	
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED -	MJY	REVISED -	
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE -	01/21/2009	REVISED -	

STATE	OF	ILLINOIS
DEPARTMENT (	0F	TRANSPORTATION

SCALE: NONE

	STAGING TYPICAL SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
	US ROUTE 30			15 T-1	WILL	20	5
				D-91-215-09	CONTRACT	NO. 6	OF69
	SHEET NO. 5 OF 20 SHEETS	STA. 267+35 TO STA. 267+83	FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		

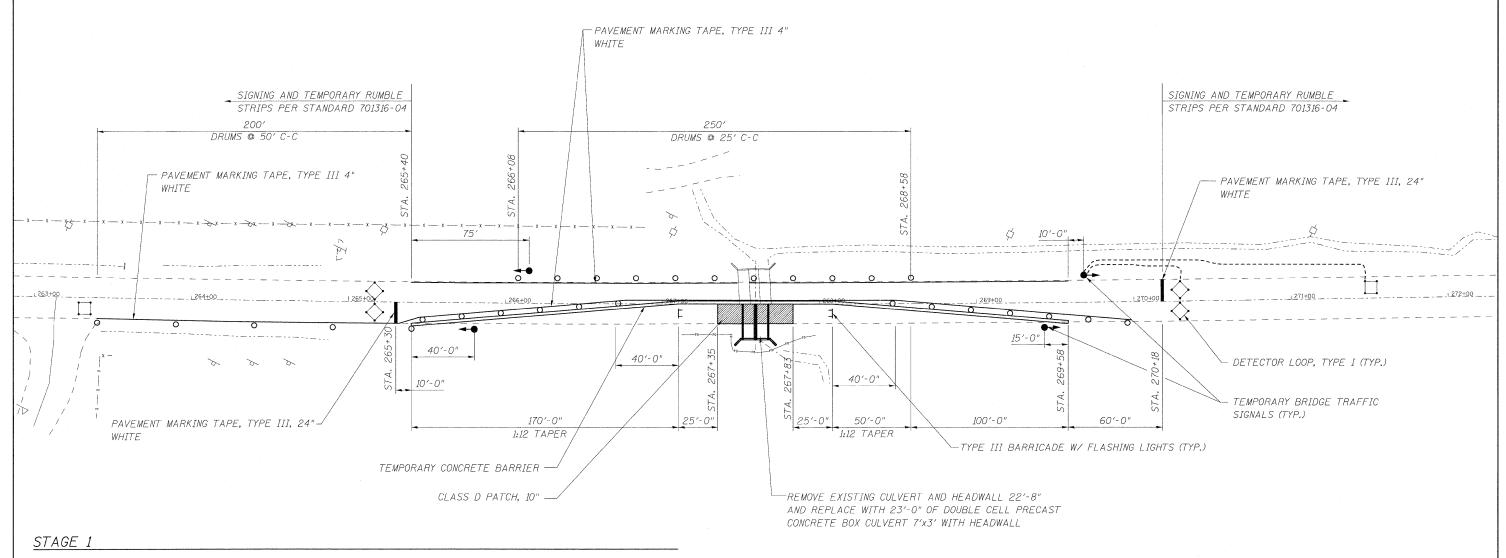
<u>LEGEND</u>

- WORK ZONE





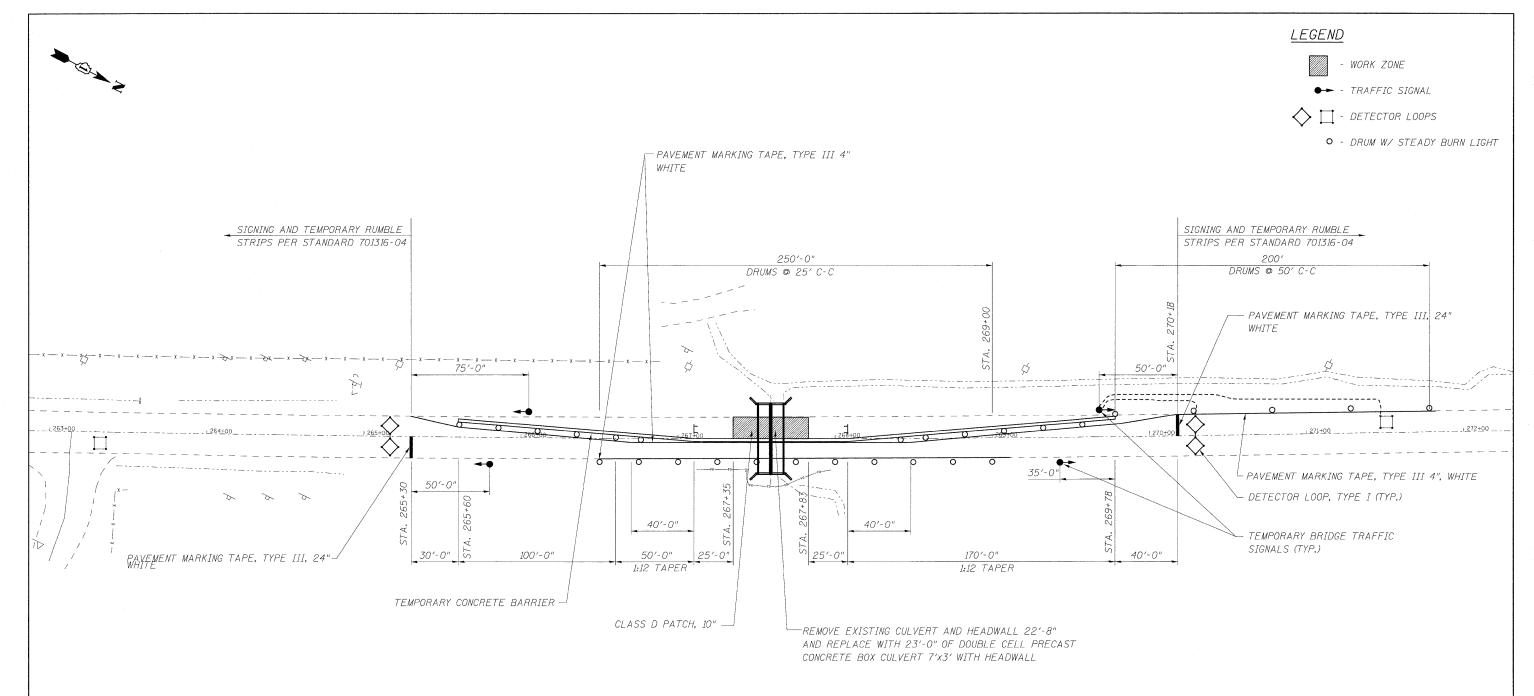
O - DRUM W/ STEADY BURN LIGHT



- 1. INSTALL TRAFFIC CONTROL, TEMPORARY CONCRETE BARRIER, AND TEMPORARY BRIDGE TRAFFIC SIGNALS IN ACCORDANCE WITH STANDARD 701316-04 AND STAGE I MAINTENANCE OF TRAFFIC.
- 2. REMOVE EXISTING PAVEMENT ON NORTHBOUND SIDE OF US ROUTE 30,
- 3. PLACE TEMPORARY SOIL RETENTION SYSTEM.
- 4. REMOVE EAST HALF OF EXISTING CULVERT.
- 5. CONSTRUCT PROPOSED PRECAST BOX CULVERTS, HEADWALLS AND WINGWALLS, THEN BACKFILL.
- 6. CONSTRUCT CLASS D PATCH FROM STA. 267+35 RT TO STA. 267+83 RT.

)′	15′	30′		60′	
	1000 TO 1000 T		and the second	145	
	SCALE:	1′′=	30′		

	DESIGNED - MJY	REVISED -		CONSTRUCTION STAGING PLAN - STAGE 1	RTF. SECTION	COUNTY SHEETS NO.
	DRAWN ~ ST	REVISED -	STATE OF ILLINOIS		349 15 T-1	WILL 20 6
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED - MJY	REVISED -	DEPARTMENT OF TRANSPORTATION	US ROUTE 30	D-91-215-09	CONTRACT NO. 60F69
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE - 01/16/2009	REVISED		SCALE: 1" = 30' SHEET NO. 6 OF 20 SHEETS STA. 267+35 TO STA. 267+83	FED. ROAD DIST. NO ILLINOIS FED. A	AID PROJECT

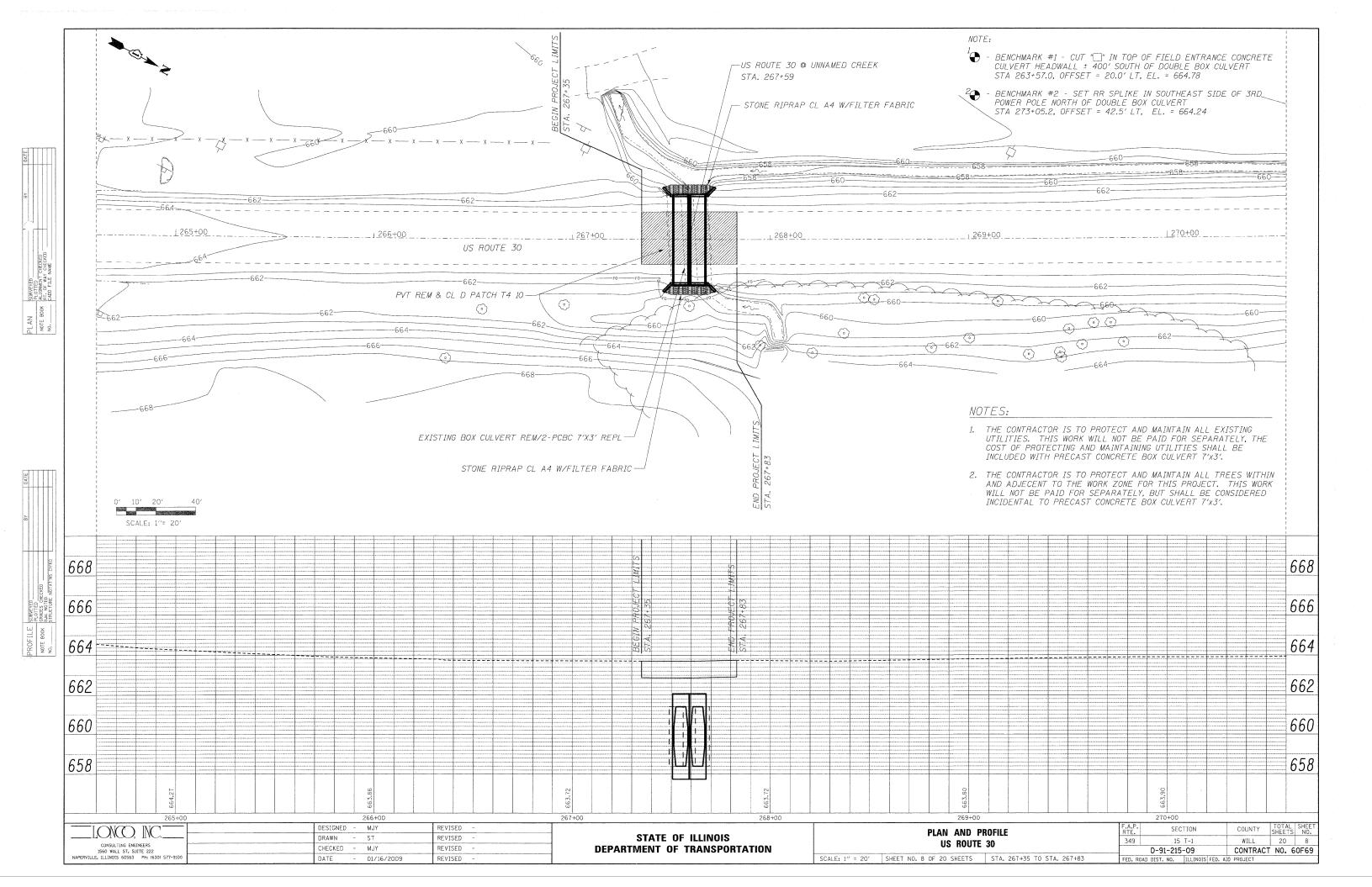


### STAGE 2

- 1. RELOCATE TRAFFIC CONTROL AND TEMPORARY CONCRETE BARRIER AS SHOWN ON STAGE 2
  MAINTENANCE OF TRAFFIC DETAILS.
- 2. REMOVE EXISTING PAVEMENT ON SOUTHBOUND SIDE OF US ROUTE 30.
- 3. PLACE TEMPORARY SOIL RETENTION SYSTEM.
- 4. REMOVE WEST HALF OF EXISTING CULVERT.
- 5. CONSTRUCT THE REMAINDER OF THE PROPOSED PRECAST BOX CULVERTS, HEADWALLS AND WINGWALLS, THEN BACKFILL.
- 6. CONSTRUCT CLASS D PATCH FROM STA. 267+35 LT TO STA. 267+83 LT.
- 7. REMOVE TRAFFIC CONTROL AND OPEN ROAD TO TWO-WAY TRAFFIC.



	USER NAME = \$USER\$	DESIGNED -	мјү	REVISED			CONSTRUCTION STAGING PLAN - STAGE 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
CONSULTING ENGINEERS		DRAWN -	ST	REVISED	 STATE OF ILLINOIS		US ROUTE 30	349	15 T-1	WILL	20 7
1560 WALL ST, SUITE 222 NAPERVILLE, TLLINOIS 60563 PH; (630) 577-9100	PLOT SCALE = \$SCALE\$	CHECKED -	MJY	REVISED ~	DEPARTMENT OF TRANSPORTATION			D-91-215-09	CONTRACT	NO. 60F69	
	PLOT DATE = \$DATE\$	DATE -	01/16/2009	REVISED		SCALE: 1" = 30"	SHEET NO. 7 OF 20 SHEETS   STA. 267+35 TO STA. 267+83	FED. ROAD	DIST. NO ILLINOIS F	ED. AID PROJECT	V



### ELECTRICAL GENERAL NOTES

- 1. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRICAL SERVICE WORK.
- 2. TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES. THE LIGHT POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE LIGHT POLES WILL NOT BE PAID FOR UNTIL THE POLES ARE FULLY APPROVED AND THE LUMINAIRES ARE INSTALLED.
- 3. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE A SOLID, SOFT DRAWN VC NO.2 BARE COPPER CONDUCTOR INSTALLED ACCORDING TO THE NEC REQUIREMENTS FOR BONDING OF COPPER GROUND RODS, DISCONNECT SWITCHES, TRAFFIC SIGNAL CONTROLLER, LUMINAIRESM AND BARE MESSENGER CABLE.
- 4. SPECIAL CARE SHAL BE TAKED DURING AUGER OPERATIONS IN EARTH TO NOT DAMAGE EXISTING FIBER OPTIC CABLES AND ANY UTILITIES AND/OR TREES ALONG US ROUTE 30 WITHIN THE PROJECT LIMITS.
- 5. ALL TEMPORARY LIGHTING UNITS SHALL BE INSTALLED ON WOOD POLES.
- 6. UNLESS OTHERWISE INDICATED THE PROPOSED TEMPORARY LIGHT POLES SHALL BE SET BACK FROM CENTERLINE OF STREET 25 FEET.
- 7. TEMPORARY WOOD POLES SHALL BE ERECTED TO MAINTAIN PROPOSED LUMINAIRE HEIGHT ABOVE ROADWAY PER PLANS.
- 8. A GROUND ROD SHALL BE INSTALLED AS SHOWN ON THE TEMPORARY LIGHTING PLANS.

### LIGHTING INDEX OF SHEETS

<u>SHEET NO.</u> 9 10	<u>DESCREPTION</u> TEMPORARY LIGHTING TEMPORARY LIGHTING	PLAN	NOTES,	INDEX	AND	SYMBOLS
11 12	TEMPORARY LIGHTING TEMPORARY LIGHTING					

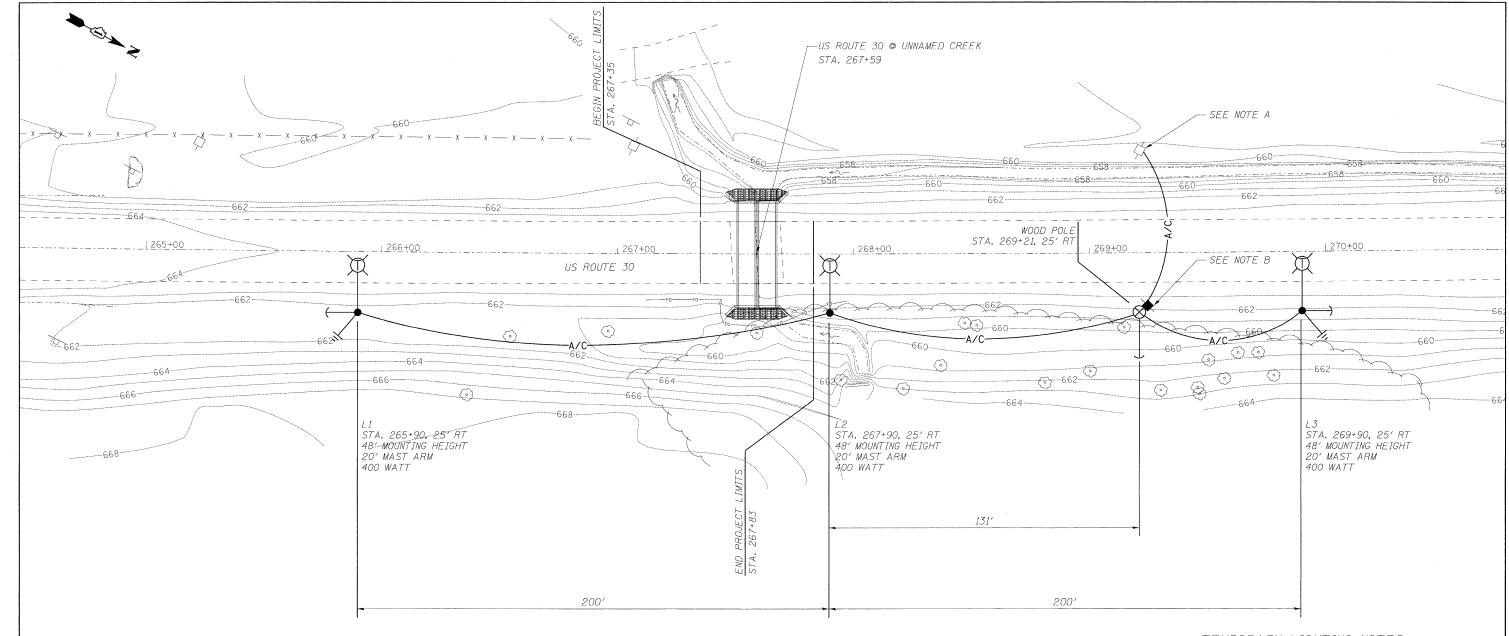
ELEC	ELECTRICAL SYMBOLS FOR PROPOSED WORK							
SYMBOL	DESCRIPTION							
XA1 STA. 230+10 60' M.H. 20' M.A. 400W	TEMPORARY LIGHTING UNIT: POLE MOUNTED, SINGLE ARM AND LUMINAIRE. POLE SHALL BE 60' HEIGHT UNLESS NOTED OTHERSWISE. — CIRCUIT NUMBER — STATION NUMBER AS INDICATED (TYP.) — MOUNTING HEIGHT — MAST ARM LENGTH — LUMINAIRE WATTAGE							
_A/C	AERIAL ELECTRIC CABLE, 3-1/C #4 WITH MESSENGER WIRE							
	GROUND ROD							
$\otimes$	TEMPORARY WOOD POLE							
(-0	POLE GUYING							
—— А ——	COMED AERIAL POWER LINE							
- Institute of the second of t	EXISTING COMED UNDERGROUND POWER LINE							



		DESIGNED	-	MJY			
		DRAWN	-	ST	REVISED	-	
	CONSULTING ENGINEERS 1560 WALL ST. SUITE 222	CHECKED	v-	MJY	REVISED	w	
	NAPERVILLE, ILLINOIS 60563 PH; (630) 577-9100	DATE	-	01/16/2009	REVISED		
		-					

STATE	0F	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

TEMPORAR	Y LIGHTING — GENERAL N	OTES. INDEX AND SYM	MBOLS	F.A.P. RTE.	SECT	ION	COUNTY	TOTAL SHEETS	SHEET NO.
	US ROUTE	•		349	15	T-1	WILL	20	9
US NOUL SU					D-91-215-	-09	CONTRACT	NO. 6	OF69
SCALE: NONE	SHEET NO. 9 OF 20 SHEETS	STA, 267+35 TO STA, 267	′ <del>+</del> 83	FED. ROA	D DIST. NO.	ILLINOIS FED. AI	D PROJECT		



### TEMPORARY LIGHTING NOTES

- 1. TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT, HORIZONTAL-MOUNT, PHOTO-CELL, TYPE II DISTRIBUTION.
- 2. TEMPORARY LIGHTING TO BE REMOVED AS DIRECTED BY IDOT WHEN ROADWAY CONSTRUCTION IS COMPLETE.
- 3. ALL SYSTEMS ARE TO BE REQUIRED TO REMAIN OPERATIONAL DURING STAGED CONSTRUCTION.
- 4. GROUND EVERY THIRD POLE WITH TEMPORARY LUMINAIRE UNLESS NOTED OTHERWISE ON PLAN.
- 5. TEMPORARY POLES SHALL BE 60 FEET UNLESS OTHERWISE NOTED.



NOTE A - EXISTING COMED POLE
MOUNTED TRANSFORMER, 25kVA.

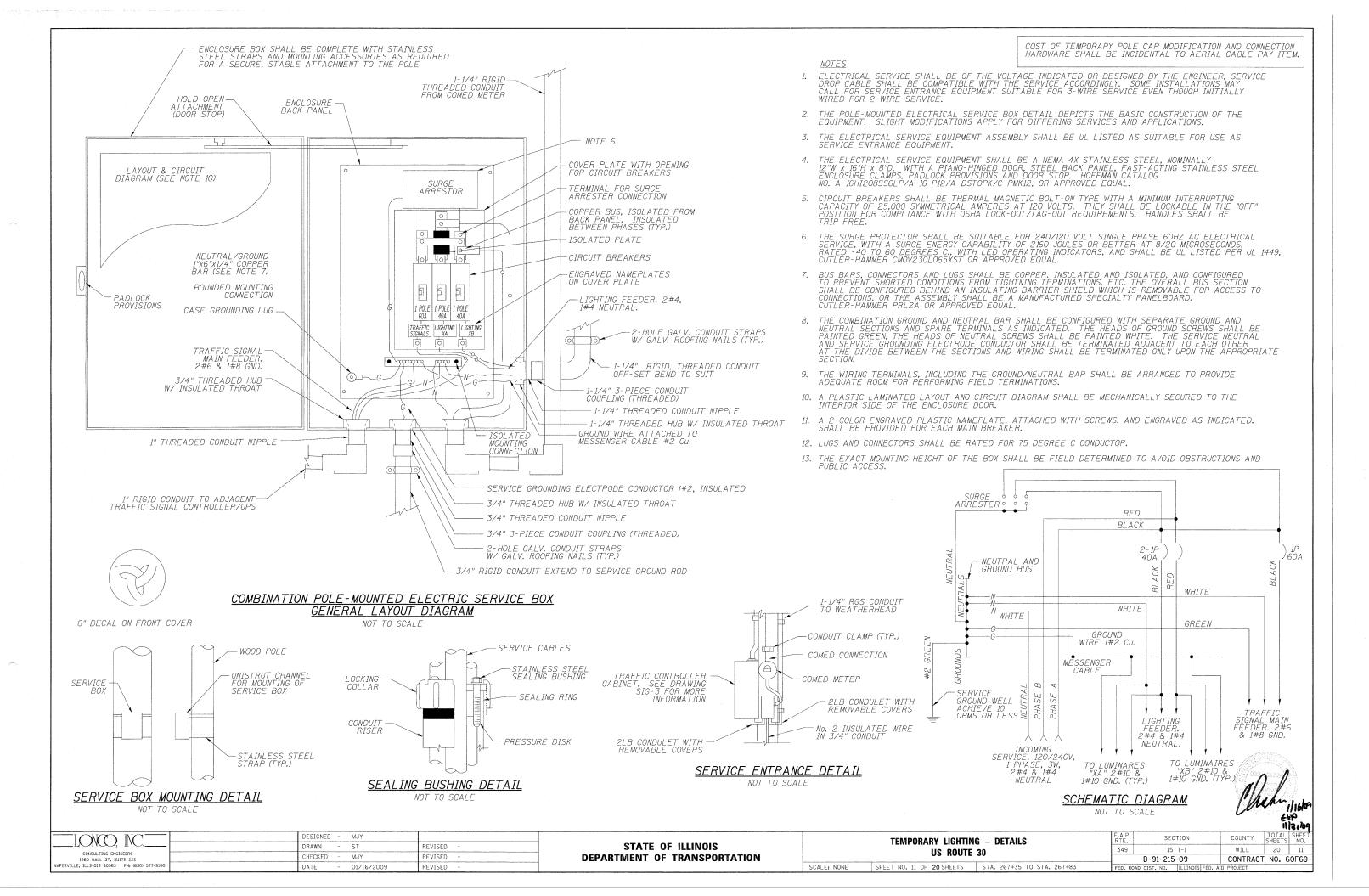
NOTE B - COMED METER AND

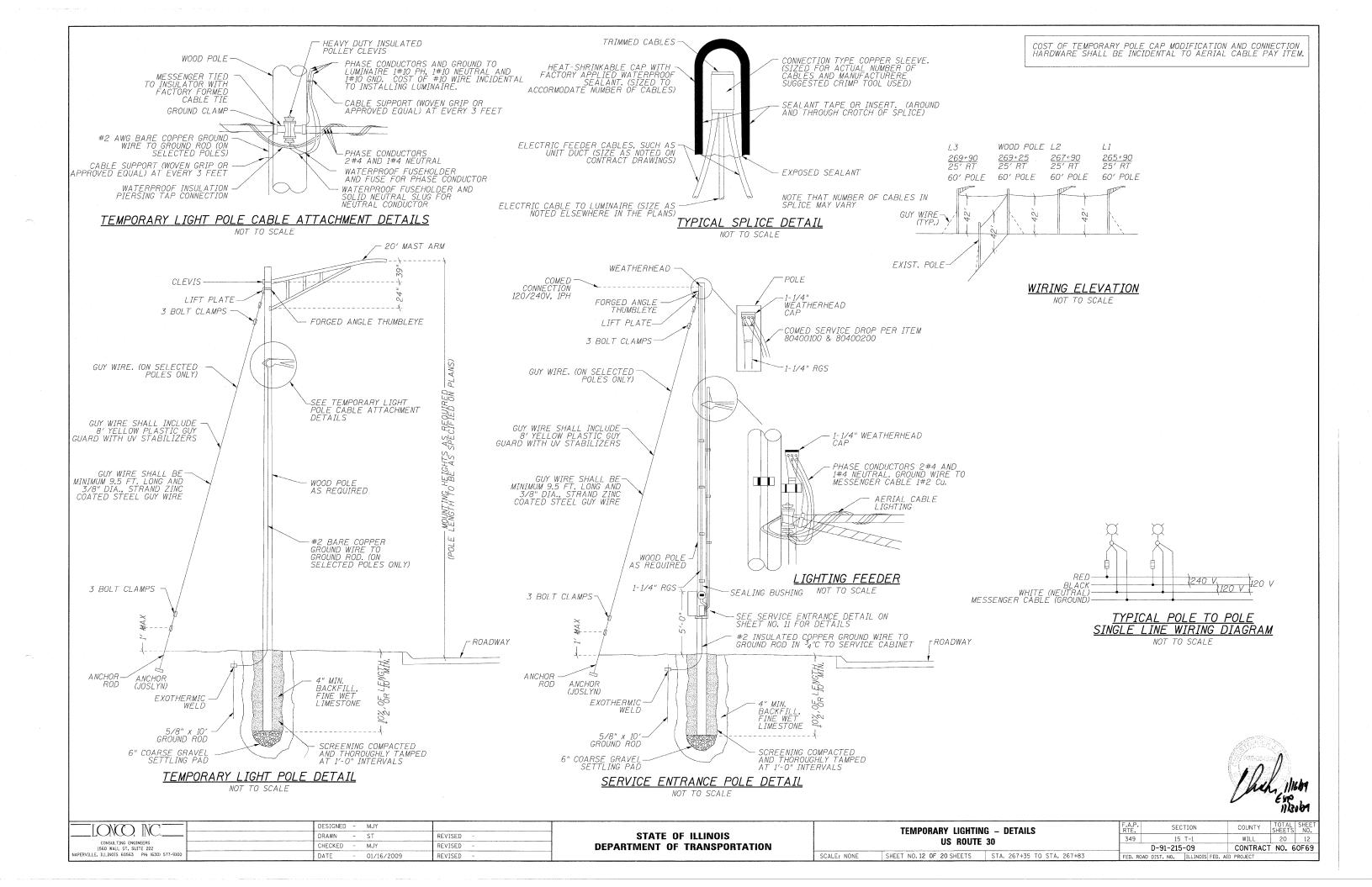
SERVICE BOX MOUNTED ON

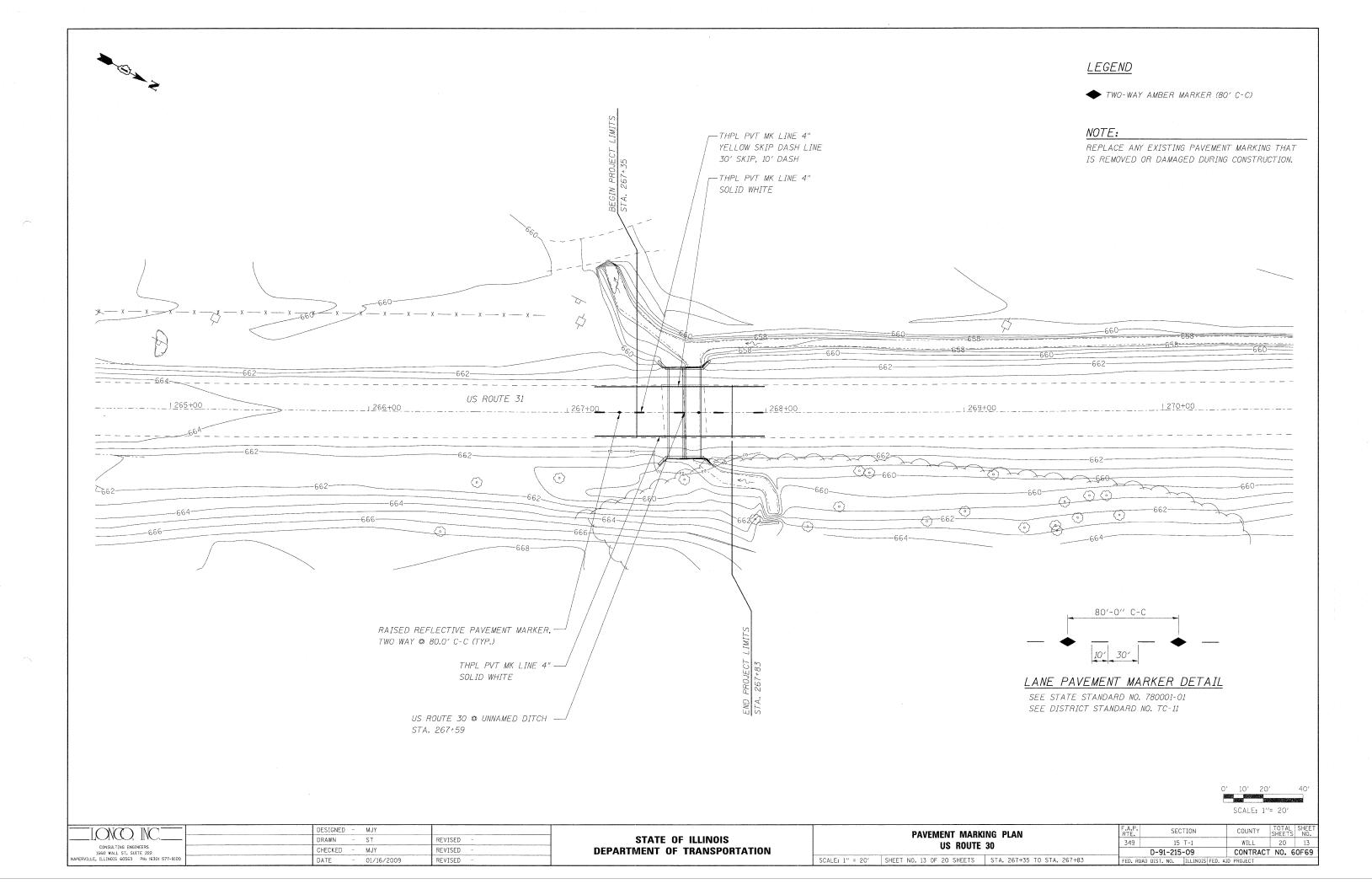
WOODEN POLE, SEE SHEET 12, FOR

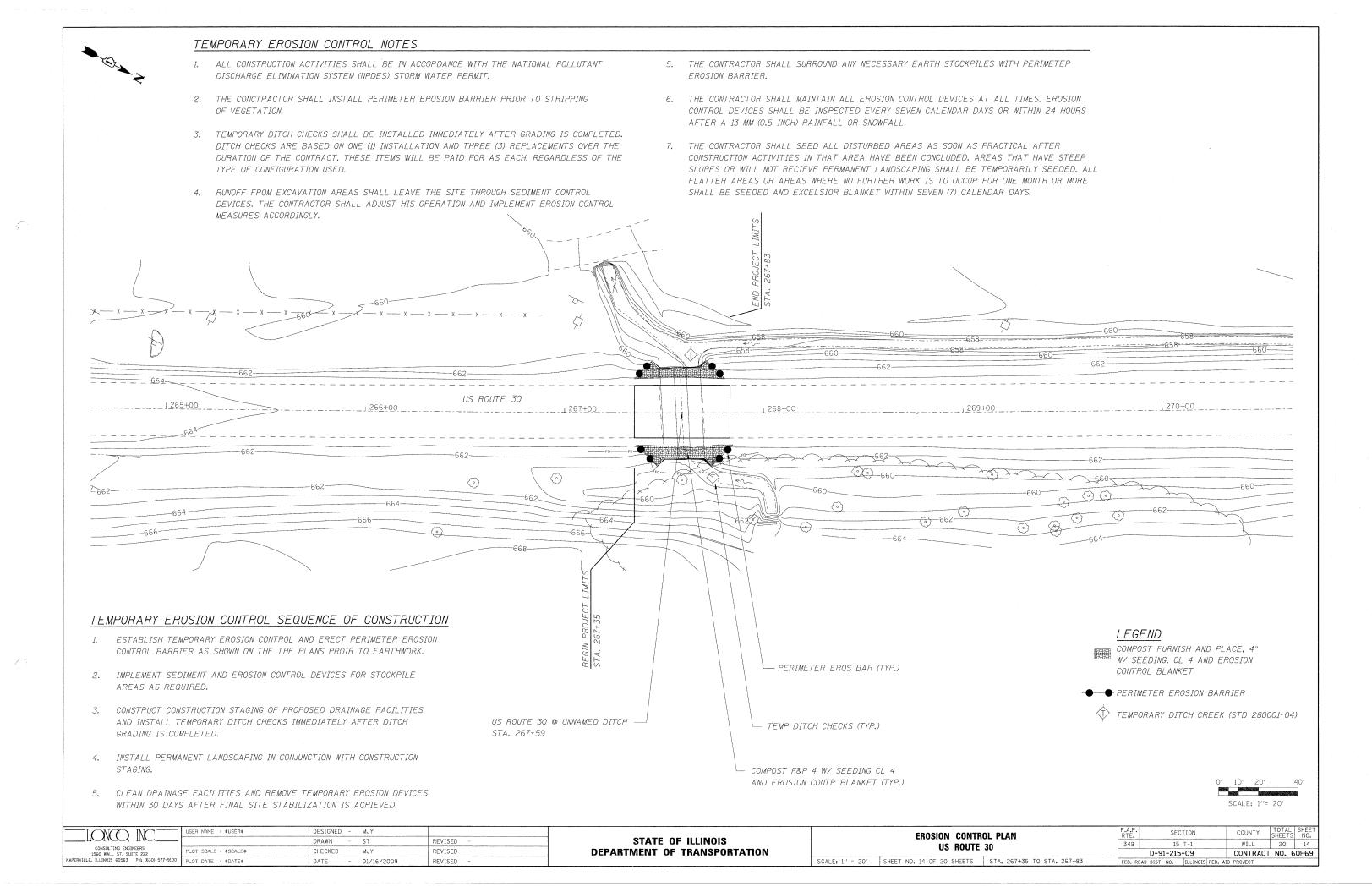
SERVICE ENTRANCE POLE DETAIL

	DESIGNED - MJY		TEMPORARY LIGHTING PLAN	F.A.P. SECTION	COUNTY TOTAL SHEET
CONSULTING ENGINEERS	- DRAWN - ST REVISED -	STATE OF ILLINOIS	US ROUTE 30	349 15 T-1	WILL 20 10
1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9104	CHECKED - MJY REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE, 1" - 20' SHEET NO 10 OF 20 SHEETS STA 267+35 TO STA 267+83	D-91-215-09	CONTRACT NO. 60F69
1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE - 01/16/2009 REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: 1" = 20' SHEET NO. 10 OF 20 SHEETS STA. 267+35 TO STA. 267+83		ID PR









### STATE OF ILLINOIS DOUBLE PRECAST- **№** PROPOSED STRUCTURE **DEPARTMENT OF TRANSPORTATION** CONCRETE BOX PROPOSED T-TYPE CULVERT 7'x3' WINGWALL (TYP.) -DUPAGE STATION 267+59 (PROJECT) RIVER BUILT 200 BY STATE OF ILLINOIS F.A.P. ROUTE 349 SEC. 15 T-LOADING HS20 STR. NO. 099-0508 NAME PLATE PROPOSED See Std. 515001 STRUCTURE DOWNSTREAM END ELEVATION 10" TH. CLASS D, COMPOST FURNISH -TYPE IV - 88 SQ, YD. AND PLACE 4" © US RT. 30 LOCATION SKETCH 23'-0" COARSE AGGREGATE BACKFILL (SPECIAL) 2% 2%\_ ALL BACKFILL MATERIAL -INVERT SHALL BE COARSE AGGR. *INVERT* FI. = 658.47BACKFILL (SPEC.) FINAL EL. = 658.32 6" OF CA 7 SUBGRADE -0" (TYP.) WATER DIVERSION SYSTEM, AS PER LIMITS OF REMOVAL AND DISPOSAL LIMITS OF EARTH-OF UNSUITABLE MATERIAL SECTION 540. EXCAVATION -6" OF CA 7 (SEE NOTE 3) LIMITS OF STRUCTURE COARSE AGGREGATE EXCAVATION BACKFILL (SPECIAL) \*\* SLOPE AS PER 20'-11" LONGITUDINAL SECTION GEOTECH REPORT AT & CULVERT, LOOKING NORTH LIMITS OF REMOVAL AND -DISPOSAL OF UNSUITABLE SECTION THROUGH MATERIAL END STA. 267+83 *PRECAST BARREL* EL. = 663.73 STOP RIPRAP AT R.O.W. LINE IF NEEDED -STONE RIPRAĖ. CLASS A4 (TYP.) BEDDING -FILTER FARRIC SECTION THRU RIPRAP WATER DIVERSION SYSTEM, AS PER SECTION 540. (SEE NOTE 3) -0.04% 0.13% 12'-6" 12'-6" CULVERT 26'-3" PAVEMENT STA. 267+59 BEGIN STA. 267+35 EL. = 663.69 46'-0" END TO END EL. = 663.70 (TYP.) PLAN PROFILE GRADE (ALONG @ ROADWAY)

### INDEX OF STRUCTURAL SHEETS

SHT. NO. **DESCRIPTION** 

*1*5 GENERAL PLAN, ELEVATION AND INDEX

16 HEADWALL DETAILS

17 WINGWALL DETALS

### GENERAL NOTES

- 1. EXISTING STRUCTURE: NOT SALVAGEABLE. THE NEW STRUCTURE NUMBER IS 099-0508.
- 2. THE PROPOSED PRECAST CONCRETE BOX CULVERT SHALL BE DESIGNED BY THE CONTRACTOR ACCORDING TO THE REQUIREMENTS OF AASHTO M273, COST IS INCLUDED IN PRECAST CONCRETE BOX CULVERT 7'x3' ITEM.
- 3. FLOW OF THE CREEK UNDER US ROUTE 30 IS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY PLACE A TEMPORARY STREAM DIVERSION AT THE UPSTREAM END OF THE BOX CULVERT/ WINGWALLS AND TEMPORARILY PUMPING OR OTHERWISE CONVEYING THE STREAM FLOW THROUGH THE WORK ZONE. THE DESIGN AND CONSTRUCTION OF THE TEMPORARY DIVERSION SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AND THE COST SHALL BE INCLUDED IN CONCRETE BOX CULVERTS ITEM, THE TEMPORARY STREAM DIVERSION PLAN TO BE USED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.
- 4. ALL CONSTRUCTION JOINTS SHALL BE BONDED.
- 5. THE INFORMATION SHOWN IN THESE PLANS CONCERNING THE TYPE AND LOCATION OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE EXISTENCE, TYPE, SIZE AND LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES AS MAY BE NECESSARY TO AVOID CONFLICT WITH CONSTRUCTION OPERATIONS AND/OR DAMAGE TO THE UTILITY.
- 6. THE CONTRACTOR IS TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO PRECAST CONCRETE BOX
- 7. THE CONTRACTOR IS TO PROTECT AND MAINTAIN ALL TREES WITHIN AND ADJACENT TO THE WORK ZONE FOR THIS PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO PRECAST CONCRETE BOX CULVERT 6'x6'.
- 8. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- 9. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- 10. THE CONTRACTOR SHALL SUBMIT A PLAN AND SCHEDULE OF CONSTRUCTION ACTIVITIES TO THE ENGINEER FOR APPROVAL BEFORE STARTING ANY WORK FOR THIS PROJECT.
- 11. AS-BUILT/ACTUAL DETAILS OF EXISTING BOX CULVERT AND WINGWALLS ARE NOT AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL EXISTING STRUCTURE TO BE REMOVED.
- 12. THE COST 6" OF CA 7 UNDER CULVERT SHALL BE INCLUDED IN THE PRECAST CONCRETE BOX CULVERT 7'x3' ITEM.

### DESIGN LOADING

HS20-44 AND ALTERNATE MILITARY LOADING AND ALLOWANCE FOR 50 P.S.F. FUTURE WEARING SURFACE

### **DESIGN SPECIFICATIONS**

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 2002

### DESIGN STRESSES

FIELD UNITS f'c = 3,500 psi

60,000 psi (REINFORCEMENT) PRECAST UNITS f'c = 5,000 psi fy = 65,000 psi (WWF) fy = 60,000 psi (REINFORCEMENT)

### SEISMIC DATA

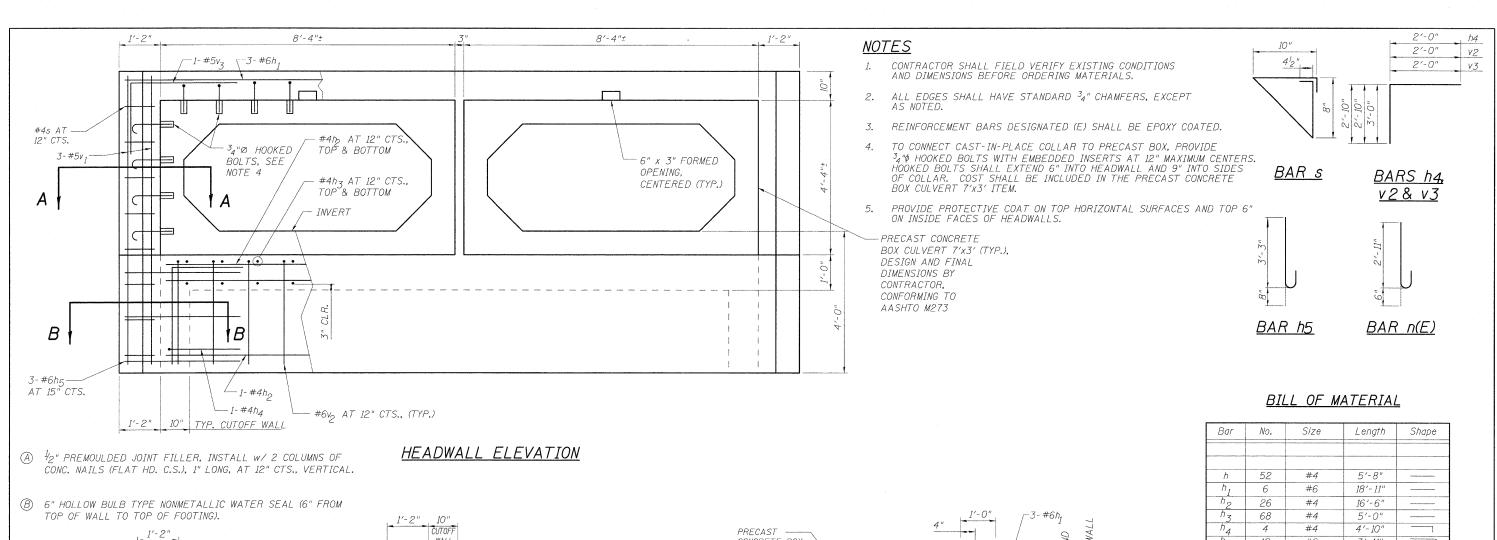
Seismic Performance Zone (SPZ) = 1 Horizontal Bedrock Acceleration Coefficient (A) = 3.5%q Site Coefficient (S) = 1.0

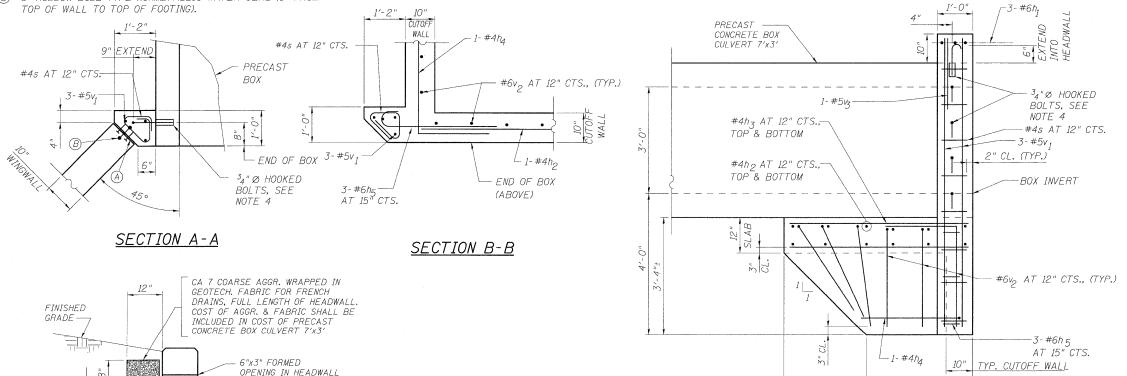
	DESIGNED -	WHE	
	DRAWN -	ST	REVISED -
CONSULTING ENGINEERS 1560 WALL ST. SUITE 222	CHECKED -	WHE	REVISED
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE -	01/21/2009	REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

	GENERAL PLAI	N, ELEVATION AN	ND INDEX
	ŧ	JS ROUTE 30	
SCALE: 1/8" = 1'-0"	SHEET NO. 15 OF 2	O SHEETS STA. :	267+35 TO STA, 267+83

	F.A.P. RTE.		SEC	TION			COUNTY	TOTAL SHEETS	SHEET NO.
	349		15	T-1			WILL	20	15
_	D-91-215-09						CONTRACT	NO. 6	OF69
	FED. R	OAD DIST.	NO	ILLINOIS	FED. A	ID	PROJECT		





DRAINAGE DETAIL

-						
h	52	#4	5′-8"	***************************************		
h <sub>1</sub>	6	#6	18′-11"			
$n_2$	26	#4	16′-6"			
′′.3	68	#4	5′-0"			
h <sub>4</sub>	4	#4	4'-10"			
h <sub>5</sub>	12	#6	3'-11"			
	***************************************		······································			
n(E)	28	#4	3′-5"			
<i>S</i>	36	#4	3'-4"			
†	48	#4	4'-2"			
V	14	#4	11'-8"			
v <sub>1</sub>	12	#5	8'-1"			
v <sub>2</sub>	50	#6	4'-10"			
v <sub>3</sub>	4	#5	5'-0"			
v <sub>4</sub>	4	#4	11'-8"			
4						
W	32	#5	5′-8"			
**	35		<u> </u>			
	T+o.m.		Unit	Overstitu		
	Item		Unit	Quantity		
		CULVERTS	CU YD	25.7		
	DRCEMEN		POUND	1975		
REINFO EPOXY	DRCEMEN COATED	T BARS,	POUND	106		
STRUC	TURE EX	CAVATION	CU YD	140		
EARTH	EXCAVA	TION	CU YD	116		
		DISPOSAL	011 VD			
OF UNS	SUITABLE	MATERIAL	CU YD	115		
	E AGGRE ILL (SPE		CU YD	310		
				40		
	R FABRIO		SQ YD	48		
SIONE	KIPKAP,	CLASS A4	SQ YD	26		
	ST CONCI RT 7'x3'	RETE BOX	FOOT	92		
ODOTE	CTIVE CO	DAT	SQ YD	11		

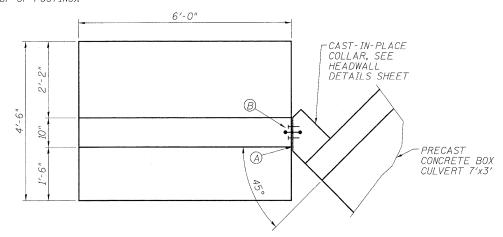
	DESIGNED - ST		HEADWALL DETAILS	F.A.P. SECTION	COUNTY TOTAL SHEET
CONSULTING ENGINEERS	DRAWN - ST REVISED	STATE OF ILLINOIS	US ROUTE 30	349 15 T-1	WILL 20 16
1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	CHECKED - MJM	DEPARTMENT OF TRANSPORTATION	SCALE: %"=1'-0"   SHEET NO. 16 OF 20 SHEETS   STA. 267+35 TO STA. 267+83	D-91-215-09	CONTRACT NO. 60F69

2'-4"

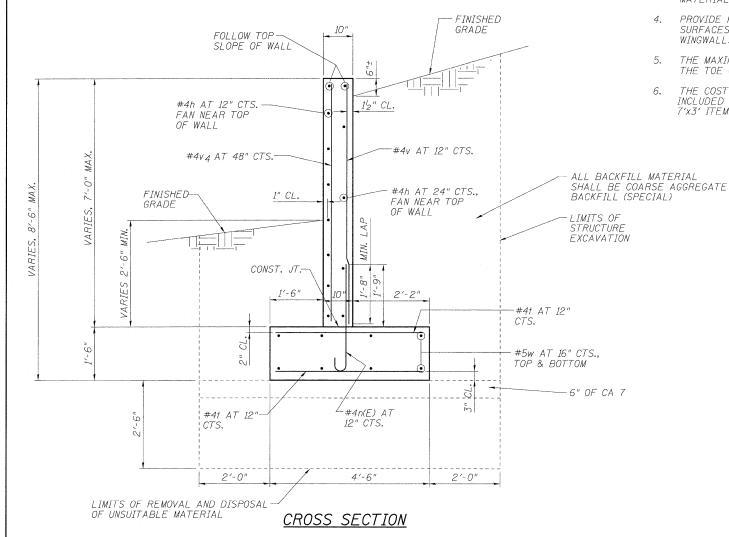
SIDE ELEVATION

3'-0"

- (A)  $\frac{I_{2}"}{}$  PREMOULDED JOINT FILLER, INSTALL W/ 2 COLUMNS OF CONC. NAILS (FLAT HD. C.S.), I" LONG, AT 12" CTS., VERTICAL.
- (6" HOLLOW BULB TYPE NONMETALLIC WATER SEAL (6" FROM TOP OF WALL TO TOP OF FOOTING).

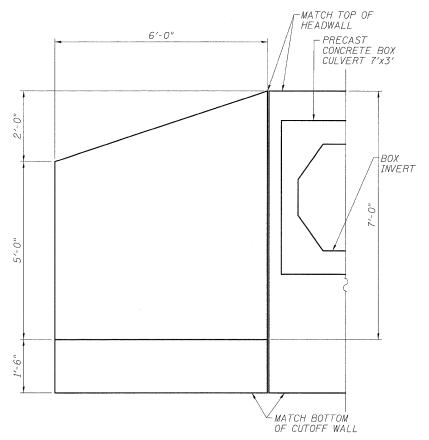


### <u>PLAN</u>

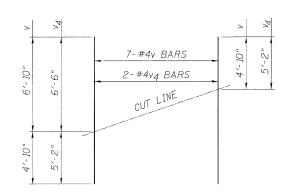


### <u>NOTES</u>

- . ALL EDGES SHALL HAVE STANDARD  $^34^{\prime\prime}$  CHAMFERS, EXCEPT AS NOTED.
- 2. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- 3. SEE HEADWALL DETAILS SHEET FOR BILL OF MATERIAL.
- 4. PROVIDE PROTECTIVE COAT ON TOP HORIZONTAL SURFACES AND TOP 12" ON INSIDE FACES OF WINGWALLS.
- 5. THE MAXIMUM DESIGN SOIL BEARING PRESSURE AT THE TOE OF THE WINGWALL FOOTING IS 2500 PSF.
- 5. THE COST 6" OF CA 7 UNDER WINGWALL SHALL BE INCLUDED IN THE PRECAST CONCRETE BOX CULVERT 7'x3' ITEM.



**ELEVATION** 



### FIELD CUTTING DIAGRAM

Order v & v<sub>4</sub> bars full length. Cut as shown and use remainder of bars in opposite wingwall.

	DESIGNED	-	SI		
	DRAWN	_	ST	REVISED	 
CONSULTING ENGINEERS 1560 WALL ST. SUITE 222	CHECKED	-	WHE, MJM	REVISED	 
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE	-	01/21/2009	REVISED	 

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

,	WINGWALL DE US ROUTE			F.A.P. RTE. 349	D
SCALE: 3/4"=1'-0" SHEET NO.	17 OF 20 SHEETS	STA. 267+35 TO STA.	267+83	FED. RC	AD [

Wang Engineering, INC.
Consulting Geotechnical and
Environmental Engineers wangeng3@wangeng.com

Client

Project

1145 Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938

## **BORING LOG BC-01**

WEI Job No.: 563-02-01

Lonco, Incorporated US Route 30 Culvert over Unnamed Creek NW 1/4, Sec. 29, T37N, R9E, Will County

Datum: NGVD Elevation: 663.70 ft North: 1818518.28 ft East: 1010838.76 ft Station: Offset:

Page 1 of 1

	SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	Sample No.	SPT Values (blw/6 in)	7 (£)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Cepth (ft) Sample Type	Sample No.	SPT Values (blw/6 in)	uo (tst)	Moisture Content (%)
0.	Loose, brown GRAVELLY SANDFILL-	=/- - - - - - - - -	1	2 3 3	NP	6	0 0 0 0	635.7		-	entime south	366	NP	17
	Stiff, black and brown CLAYFILL- 158.7 Loose, brown and gray SANDY	5	2	2 3 4	1.23 B	29		Мє	edium dense, brown gray ND	30	12	5 2 9	NP	15
- 1 <u>6</u>	LOAMFILL	-	3	1 2 2	NP	20			edium dense to dense, gray LT		13	22 18 13	NP	16
	and gray SILTY CLAY, trace gravel	10	4	2 3 4	1.48 B	19		629.7		35	14	13 14 14	ΝP	21
			5	3 6 8	0.66 B	22		Вог	ring terminated at 35.00 ft					
		15	6	3 7 8	3.28 B	17				40_				
			7	3 4 5	1.97 B	18								
	43.7 Loose, brown gray GRAVELLY	20 🗸	8	3 3 4	1.23 B	18				45				
	SAND		9	2 4 4	NP	9								
		25	10	5	NP	26				50_				
	GENERA								WATER LI					
		Comple F.B.	1	Drill Rig	g Me	obil E	3-57	TMR	At Completion of Drilling			50 ft 00 ft	,	
	ng Method 3,25" HSA; Mobile /			NA approximat	e bou gradi	indary ual.								

Wang Engineering, INC	8	ORING	LOG	BC-02

Consulting Geotechnical and Environmental Engineers wangeng3@wangeng.com 1145 Main Street Lombard, IL 60148

Telephone: 630 953-9928 Fax: 630 953-9938

Client Project

US Route 30 Culvert over Unnamed Creek Location NW 1/4, Sec. 29, T37N, R9E, Will County

WEI Job No.: 563-02-01

Lonco, Incorporated

Page 1 of 1

Datum: NGVD Elevation: 663.70 ft North: 1818484.37 ft East: 1010835.45 ft

Station: Offset:

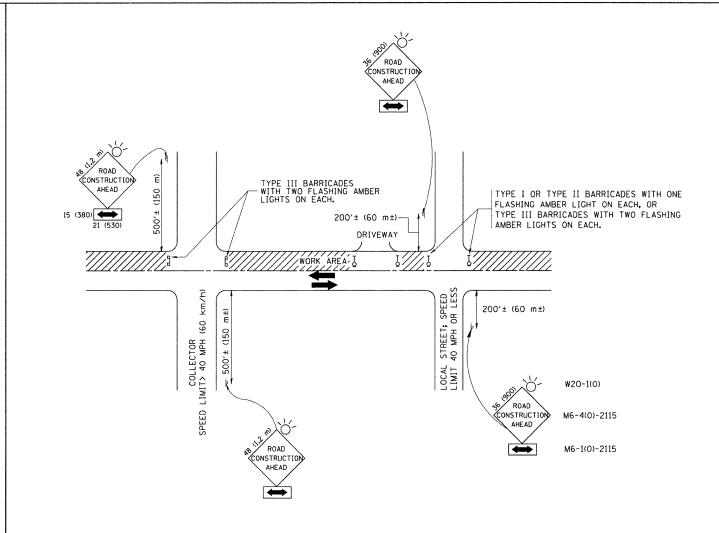
- 1	SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	Sample No.	SPT Values (blw/6 in)	og Gsj	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND RO		Depth Septh	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tst)	Moisture
10 Table 10	3.17-inch thick ASPHALTPAVEMENT- Loose, brown SANDY LOAMFILL- Stiff, brown and gray CLAY		1	3 3 4	ΝP	11			dium dense to den ND, trace gravel	se, gray		X	11	14 11 9	NP	Minor.
	FILL-	5	2	1 4 5	1.00 P	24					30_	X	12	4 12 26	NP	,
555		X	3	1 2 4	1.31 B	28		632.7 Med SIL	dium dense to den T	se, gray						
	Stiff to very stiff, gray SILTY CLAY	10	4	4 5 7							35	X	13	8 18 27	NP	
		1	5	18 50/3	ΝP			627.2 Borii	ng terminated at 3	6.50 ft		Å	14	7 7 9	NP	
		15	6	24 21 8	3.12 B	16					40					
       			7	15 7 9	3.50 B	*5					J. J. E. L	<i>y</i>			-	
      643	Loose to medium dense,	20√	8	11 13 10	3.50 B	14					45					
	SANDY GRAVEL		9	6 6 7	ΝP	15					1					
0 4 4 0 4	AFIJES A	25	10	3	NP	13			1972	TPR I	50_					
	GENERA				-	14.40	200	ne		TER LI				·		
rillin riller	Drilling	F.B.		Drill Rig Ch	g <b>M</b> o ecked	obil E by	3-57 N.	TMR D.	While Drilling At Completion of D Time After Drilling Depth to Water		NA NA			00 ft 50 ft		art.
MINER	y memou 3.20 M3K, MODITE	-uiOHle	HIL.	raii III	₽ <b>9</b> 1				The stratification lines between soil types; the	enresent the	annm	vimote	a bost	ndanz		

	DESIGNED	- MJY	REVISED -
	DRAWN	- ST	REVISED -
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED	- MJY	REVISED -
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE	- 01/16/2009	REVISED -

STATE	OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SCALE: NONE

BORING LOG	F.A. RTE.	SECTION	COUNTY	TOTAL	SHEE'
US ROUTE 30	349	15 T-1	WILL	20	18
OU HOULE OU		D-91-215-09	CONTRACT	NO. 6	50F69
SHEET NO. 18 OF 20 SHEETS STA. 267+35 TO STA. 267+83	FED. R	DAD DIST. NO. ILLINOIS FED. A	ID PROJECT		



### TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

### NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

### B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

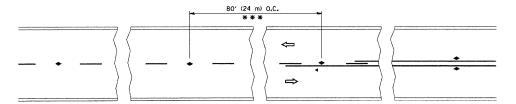
All dimensions are in millimeters (inches) unless otherwise shown.

	DESIGNED -	MJY	REVISED	-
	DRAWN -	ST	REVISED	-
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED -	MJY	REVISED	_
NAPERVILLE, ILLINOIS 60563 PH; (630) 577-91	DATE -	01/16/2009	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

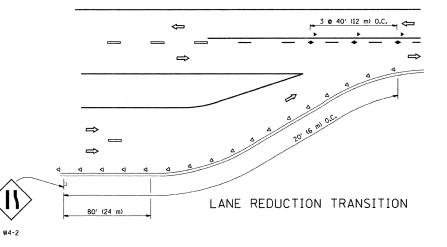
s				PROTECTION FOR NS AND DRIVEWAYS
NE	SHEET NO	). 19 OF	20 SHEETS	STA. 267+35 TO STA. 267+83

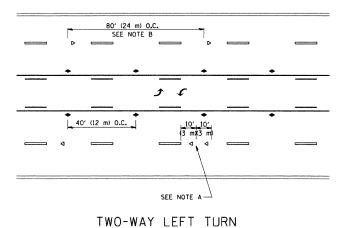
F.A. RTE			SEC	TION		COUNTY	TOTAL	SHEE NO.		
349	3		15	T-1			WILL	20	19	
		D-9	1-215	-09			CONTRACT	NO. 6	OF69	
FED.	ROAD	DIST.	NO.	ILLINOIS	FED.	AID	PROJECT			

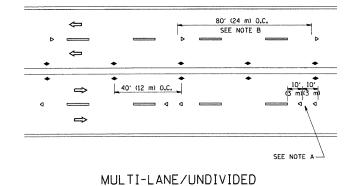


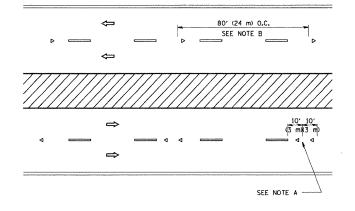
\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY









MULTI-LANE/DIVIDED

### GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

### LANE MARKER NOTES

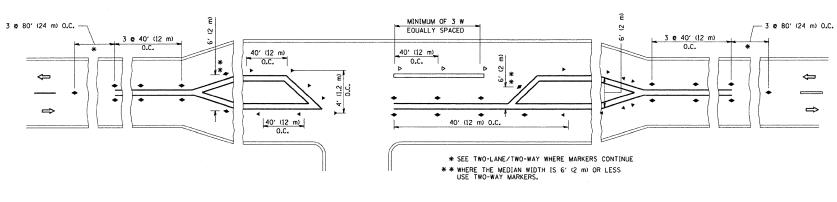
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

### SYMBOLS

- --- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

### DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY
  EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE
  LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

		DESIGNED -	- MJY	REVISED -		TYPICAL APPLICATIONS			SECTION	COUNTY	SHEETS NO.	
	DRAWN - ST REVISED - STATE OF ILLINOIS CHECKED - MJY REVISED - DEPARTMENT OF TRANSPORTATION	STATE OF ILLINOIS	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTA			15 T-1	WILL	20 20				
CONSULTING ENGINEERS		CHECKED -	MJY	REVISED -	DEPARTMENT OF TRANSPORTATION	MAISED REFLECTIVE PAVEIVIENT IVIANKENS (SNOVY-FLOVY RESISTANT)			D-91-215-09	CONTRAC	T NO. 60F69	
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100		DATE -	01/16/2009	REVISED -			SHEET NO. 20 OF 20 SHEETS STA. 267+35 TO STA. 267+83	FED. ROAD DIST. NO.   ILLINOIS FED. AID PROJECT		AID PROJECT	í	